

ABSTRACT

A method for manufacturing a composite material having orientated thermoplastics and non-orientated thermoplastics or only orientated thermoplastics and a three-dimensional component manufactured using the composite material. The composite material is heated to a temperature level above the stress-free melting point of the higher-melting thermoplastics. A mechanical stress is applied within the composite material using a device for holding the composite material in order to temporarily raise the melting point of the orientated thermoplastics during shaping, thus ensuring the component quality.